

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES A PHASING MODIFICATION TO THE US 1 LEFT TURNS MOVEMENTS AT THE EXISTING TRAFFIC CONTROL SIGNAL OF US 1 (HICKORY BYPASS) AND MD 543 (FOUNTAIN GREEN ROAD) IN HARFORD COUNTY.

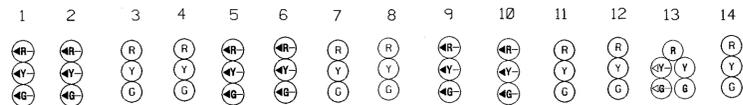
US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION SHALL OPERATE IN A NEMA (8) EIGHT PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH SINGLE EXCLUSIVE LEFT TURNS FOR BOTH APPROACHES OF US 1. THE LEFT TURN SIGNAL HEADS SHALL FLASH RED FROM 10:00 P.M. TO 5:00 A.M.. THE THROUGH MOVEMENTS SHALL OPERATE CONCURRENTLY. MD 543 THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE NORTHBOUND APPROACH OF MD 543 OPERATES AS A DOUBLE EXCLUSIVE LEFT TURNS AND THE SOUTHBOUND APPROACH OPERATES AS AN EXCLUSIVE/PERMISSIVE LEFT TURN.

THE EXISTING NEMA BASE-MOUNTED CABINET SHALL BE MAINTAINED. THE CONTROLLER SHALL BE MODIFIED AS INDICATED.

PHASE CHART



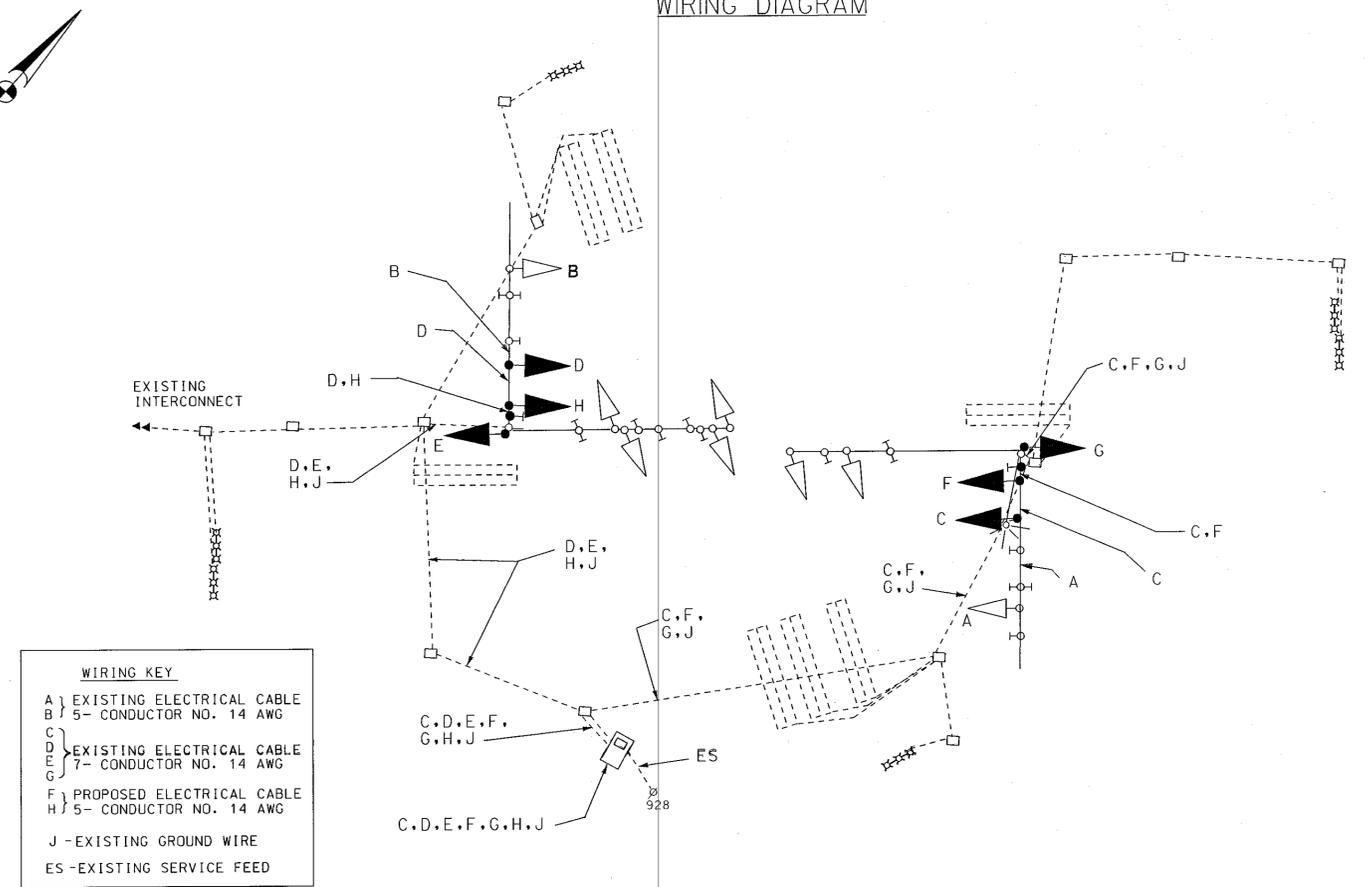
Phase 1 & 5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	
Change to phases 1 & 6 or 2 & 5 or 2 & 6															
Phase 1 & 6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	
1 change	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	
Phase 2 & 5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	
5 change	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	
Phase 2 & 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	
2 & 6 change	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	
Phase 3 & 7	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	R	R	←G-	R	
Change to phases 3 & 8 or 4 & 7 or 4 & 8															
Phase 3 & 8	←R-	←R-	R	R	←R-	←R-	R	R	←G-	←G-	G	G	R	R	
8 change	←R-	←R-	R	R	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	
Phase 4 & 7	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	R	R	←G-	G	
7 change	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	R	R	←Y-	G	
Phase 4 & 8	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	G	G	G	G	
4 & 8 change	←R-	←R-	R	R	←R-	←R-	R	R	←R-	←R-	Y	Y	Y	Y	
Flashing Operation	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/R	FL/R	FL/R	FL/R	

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE SHA:

ITEM	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
9000	1 EA	REMOVE & DISPOSE OF MATERIALS AND EQUIPMENT
9000	450 LF	5-CONDUCTOR NO. 14 AWG ELECTRICAL CABLE
9006	18 EA	12 IN VEHICULAR TRAFFIC SIGNAL HEAD SECTION
9073	18 EA	SIGNAL HARDWARE FOR THREE-SECTION HEAD MAST ARM MOUNTED

WIRING DIAGRAM



WIRING KEY	
A	EXISTING ELECTRICAL CABLE
B	5- CONDUCTOR NO. 14 AWG
C	EXISTING ELECTRICAL CABLE
D	7- CONDUCTOR NO. 14 AWG
E	EXISTING ELECTRICAL CABLE
F	PROPOSED ELECTRICAL CABLE
H	5- CONDUCTOR NO. 14 AWG
J	EXISTING GROUND WIRE
ES	EXISTING SERVICE FEED

CEI
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
 GENERAL INFORMATION SHEET

US 1 (HICKORY BYPASS) AND MD 543 (FOUNTAIN GREEN ROAD)

DRAWN BY: <u>EMM</u>	F.A.P. NO. _____	TS NO. <u>3854 B</u>	SHEET NO. _____
CHECKED BY: _____	S.H.A. NO. _____	SF-SIGNALS	T.I.M.S. NO. _____
SCALE: <u>NONE</u>	COUNTY: <u>HARFORD</u>	LOC MILE: <u>12000108.12</u>	<u>2</u> OF <u>2</u>
DATE: <u>05/20/05</u>	LOC MILE: _____	_____	_____